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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/037,588	10/23/2001	Michael Kenneth Brown	401052-A-01-US(Brown)	6479		
47523 75	7590 02/10/2006			EXAMINER		
JOHN C. MORAN, ATTORNEY, P.C.			PHAN, JO	PHAN, JOSEPH T		
4120 EAST 115 THORNTON.	S PLACE CO 80233-2623		ART UNIT	PAPER NUMBER		
,			2645			
			DATE MAILED: 02/10/2006	DATE MAILED: 02/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	on No.	Applicant(s)				
		10/037,58	8	BROWN ET AL.				
		Examiner		Art Unit				
		Joseph T.	Phan	2645				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the	cover sheet with the c	orrespondence ad	ldress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING I nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. o period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 1.136(a). In no eve od will apply and will ute, cause the appl	IIS COMMUNICATION ant, however, may a reply be timulation Il expire SIX (6) MONTHS from ication to become ABANDONEI	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) filed on 16	November 20	005					
· ·	This action is FINAL . 2b)⊠ This action is non-final.							
/	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
-,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	4) Claim(s) <u>1,4,6-17,19,22-27,29 and 31</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	S) Claim(s) is/are allowed.							
6)⊠	S)⊠ Claim(s) <u>1,4,6-17,19,22-27,29 and 31</u> is/are rejected.							
	7) Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment	t(s)		•					
	e of References Cited (PTO-892)		Interview Summary (PTO-413)					
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08	۵۱	Paper No(s)/Mail Da 5) Notice of Informal Pa	ill Date nal Patent Application (PTO-152)				
	r No(s)/Mail Date		6) Other:	atom rippiioauoii (i 10	,			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 11 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 lines 10-11 recites "...in response to the detection of speech <u>indicating</u> an absence of speech." This phrase unclear and confusing as it is contradictory in and of itself. If there is a detection of speech then speech is Not absent. Appropriate clarification and/or correction are required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4, 11, 19 and 27-30 rejected under 35 U.S.C. 102(b) as being anticipated by Novas et al., Patent #5,521,967.

Regarding claims 1 and 17 Novas teaches a method for performing call classification for a destination endpoint on a call, comprising the steps of: receiving audio information from the destination endpoint and analyzing using speech recognition analysis calculations the received audio information for words(col.5 lines 50-

60);

analyzing using the automatic speech recognition analysis calculations the received audio information for tones(col.5 lines 60-67, col.6 lines 8-29, and col.9 lines 31-40); and

determining a call classification for the destination endpoint in response to the analysis of the words and the analysis of the tones(42 Fig.2, Fig.11A-11B, and col.40).

Regarding claim 4 Novas teaches the method of claim 2 wherein the analysis for tones is analyzing the audio information for identifying a set of tones (col.5 lines 61-67).

Regarding claim 11 Novas teaches a method for performing call classification for a destination endpoint on a call, comprising the steps of:

receiving audio information from the destination endpoint and detecting for speech in received audio information(col.5 lines 50-60);

analyzing using automatic speech recognition the received audio information for words in response to the detection of speech indicating a presence of speech(col.5 lines 50-60); and

analyzing using automatic speech recognition the received audio information for tones (col.5 lines 61-67); and

determining a call classification for the destination endpoint in response to the analysis of words or the analysis of tones(42 Fig.2, Fig.11A-11B, and col.40).

Regarding claim 19, Novas teaches the method of claim 17 wherein the analyzed words are formed as phrases words(col.5 lines 50-60).

Regarding claim 27, Novas teaches a call classifier for determining the call

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classification of a called destination endpoint, comprising:

an automatic speech recognizer for detecting first characteristics in audio information received from the called destination endpoint, the automatic speech recognizer further identifying tones in the audio information received from the called destination endpoint(col.5 lines 61-67);

and inference engine for classifying the call in response to the automatic speech recognizer (col.1 lines 42-50, 42 Fig.2, Fig.11A-11B, and col.40, Novas' system/engine infers the words).

Regarding claim 28, Novas teaches the call classifier of claim 27 wherein the first characteristics are words (col.5 lines 50-60).

Regarding claim 29, Novas teaches the call classifier of claim 28 wherein the words are formed into phrases (col.5 lines 50-60).

Regarding claim 30, Novas teaches the call classifier of claim 28 wherein the second characteristics are tones (col.5 lines 61-67).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-10, 12-16, 22-26, and 31 rejected under 35 U.S.C. 103(a) as being unpatentable over Novas in view of Trandal et al., Patent #6088428.

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Regarding claims 6, 8, 12, 14, 22, 24, and 31, Novas teaches the methods and call classifier of claims 5-6, 11-12, 21-22, and 30 wherein the step of analyzing for the first and second types of classification is responsive to the detection of speech and/or tone in the audio information(col.5 lines 50-67).

Novas is silent on executing a Hidden Markov Model to determine the presence of words or tones in the audio information.

Trandal discloses using a Hidden Markov Model to determine the presence of words and/or tones in audio information (col.8 lines 16-25 and col.23 lines 17-28)

At the time the invention was made, it would have been obvious to a person of ordinary skill in the to use the Hidden Markov Model as taught by Trandal to determine the presence of words or tones. One of ordinary skill in the art would have been motivated to do this because the Hidden Markov Model is a common and well-known algorithm for recognizing speech as disclosed in Novas's speech recognition system.

Regarding claims 7, 13, and 23, Novas in view of Trandal teaches the methods of claims 6, 12, and 22 wherein the step of executing comprises the step of using a grammar for speech(col.5 lines 50-67).

Regarding claims 9, 15, and 25, Novas in view of Trandal teaches the method of claims 8, 14, and 24 wherein the step of executing comprises the step of using a grammar for tones(col.5 lines 50-67).

Regarding claims 10, 16, and 26, Novas in view of Trandal teaches the method of claims 8, 14, and 24 wherein the step of determining comprises the step of executing

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the words).

Response to Arguments

an inference engine (col.1 lines 42-50, 42 Fig.2, Fig.11A-11B, and col.40, engine infers

4. Applicant's arguments with respect to claims 1,4,6-17, 19, 22-27, 29, and 31

have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Joseph T. Phan whose telephone number is (571) 272-

7544. The examiner can normally be reached on Mon-Fri 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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ITP

February 3, 2006

FAM TSANG

SUPERVISORY PATENT EXAMINER

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